

Notice



☒ CORRECTION

☐ PRODUCTION CHANGE

☐ SERVICE FLASH

☐ ADD INFORMATION

FILE NO.

REVISION-3

Please add this notice to the Service Manual listed below.

Category : Multi-media Projector

Issued Date :

December / 2010

Model : PLC-WXU700A

Effective from :

Chassis No. KY7-WXU700A00 ←

Destination : Canada, U.S./Europe,
Asia, U.K.

REF. NO. :

SM5111153

NOTE: Match the Chassis No. on the rating label of the projector with the Chassis No. in the Service Manual.

If the Chassis. No. does not match the projector, additional Service Literature is required. Only the difference service information is given in this manual. For detailed service information, refer to the service manual original SM5111153-00 issued in November 2009 for Model PLC-WXU700A.

Reason of Change:

- To correct the adjustment procedure on the Electrical Adjustments. (The Pedestal Adjustment is not necessary for this model)
- To correct and update the information of Service Adjustment Data Table.

FILE WITH ORIGINAL SERVICE MANUAL (SM5111153)

PRODUCT CODE

PLC-WXU700A

1 122 457 20 (KY7AE)

1 122 458 20 (LY7AE)

1 122 458 22 (LY7CE)

REFERENCE NO. SM5111153-03

Electrical Adjustments

Service Adjustment Menu Operation

To enter the service mode

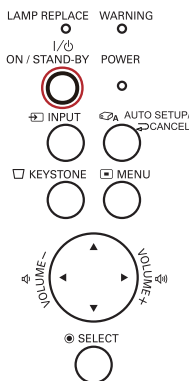
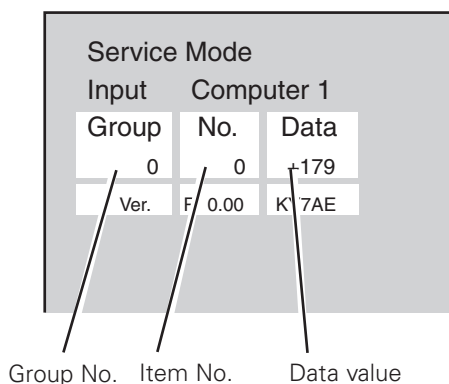
To enter the "Service Mode", press and hold the **MENU button** and **SELECT button** on the projector for more than 3 seconds or press and hold the **MENU button** on the remote control for than 20 seconds. The service menu appears on the screen as follows.

To adjust service data

Select the adjustment group no. by pressing the **MENU button** (increase) or **SELECT button** (decrease), and select the adjustment item no. by pressing the pointer **▲** or **▼ button**, and change the data value by pressing the **◀** or **▶ button**. Refer to the "Service Adjustment Data Table" for further description of adjustment group no., item no. and data value.

To exit the service mode

To exit the service mode, press the **ON/STAND-BY button**.



Memory IC (IC1391) Replacement

Memory IC on the main board stores the data for the service adjustments, and should not be replaced except for the case of defective device.

If replaced, the re-adjustments are required following to the "Electrical Adjustments".

The data of lamp replacement counter is stored in the Memory IC.

Please note that the lamp replace counter will be reset when the memory IC is replaced.

(Lamp replace counter cannot be set to the previous value.)

● Caution to memory IC replacement

When memory IC is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC as the mentioned on the service ad-

justment table. As these data are not the same data as factory shipped data, it should be required to perform the re-adjustments following to the "Electrical Adjustments".

Please note that in this case the lamp replace counter will be reset.

● Caution of Main Board replacement (in the case memory IC is not defective)

When the main board is replaced, memory IC should be replaced with the one on previous main board. After replacement, it should be required to perform the re-adjustments following to the "Electrical Adjustments".

In this case, the lamp replace counter can be kept the value as before.

Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety. Before adjustment, please turn on the projector more than ten minutes.



WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING.



CAUTION:
To prevent suffer of UV radiation, those adjustments must be completed within 25 minutes.

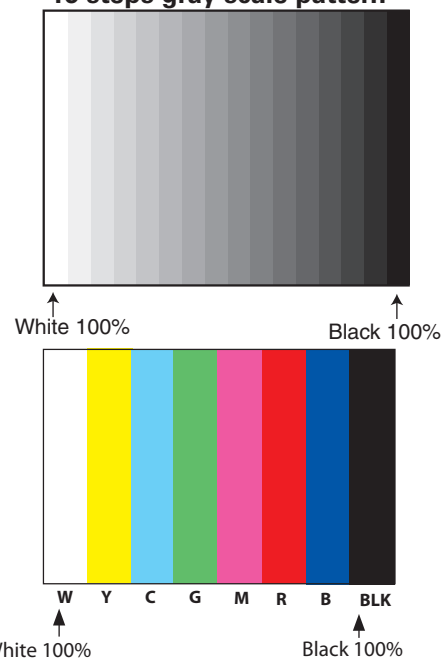
[Adjustment Condition]

- Input signal
 - Video signal 1.0Vp-p/75Ω terminated, 16 steps gray scale (Composite video signal)
 - Component Video signal 1.0Vp-p/75Ω terminated, 8 color 100% color bar or 16 step gray scale (Component video signal)
 - Computer signal.....0.7Vp-p/75Ω terminated, 16 steps gray scale pattern
- Image control mode....."STANDARD" mode unless otherwise noted.

Note:

* Please refer to "Service Adjustment Menu Operation" for entering the service mode and adjusting the service data.

16 steps gray scale pattern



After replacing the Power Board readjust the Output voltage adjustment as follows.

1. Connect a digital voltmeter to pins 1 (+) and 2 (-) of **K6A**.
2. Adjust the voltage by using VR601 as following.

AC Input	Reading
230V	370V $\pm 2V$

Caution:

Be sure to connect the lamp when taking this adjustment.

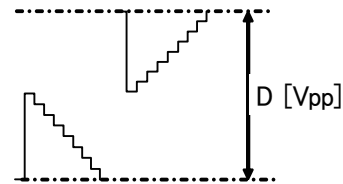
* This adjustment is not required even if the power board is replaced because this adjustment is carried out before parts shipment.

1. Fan Control adjustment

1. Enter the service mode.
2. Connect a digital voltmeter to test point "TPFANA" (+) and chassis ground (-). Select group no. "250"; item no. "0" and change data value to adjust voltage to be **4.5 $\pm 0.1V$** .
3. Connect a digital voltmeter to test point "TPFANB" (+) and chassis ground (-). Select group no. "250"; item no. "2" and change data value to adjust voltage to be **4.5 $\pm 0.1V$** .
4. Connect a digital voltmeter to test point "TPFANC" (+) and chassis ground (-). Select group no. "250"; item no. "4" and change data value to adjust voltage to be **4.5 $\pm 0.1V$** .
5. Connect a digital voltmeter to test point "TPFANA" (+) and chassis ground (-). Select group no. "250"; item no. "1" and change data value to adjust voltage to be **13.5 $\pm 0.1V$** .
6. Connect a digital voltmeter to test point "TPFANB" (+) and chassis ground (-). Select group no. "250"; item no. "3" and change data value to adjust voltage to be **13.5 $\pm 0.1V$** .
7. Connect a digital voltmeter to test point "TPFANC" (+) and chassis ground (-). Select group no. "250"; item no. "5" and change data value to adjust voltage to be **13.5 $\pm 0.1V$** .

2 .Reference Voltage Adjustment

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer 2 [RGB]** mode.
3. Select group no. "106"; item no. "0" to adjust the voltage of **TP_VMIDG** to be **7.00 $\pm 0.01V$** .
4. Select group no. "106"; item no. "1" to adjust the voltage of **TP35R** to make the amplitude "**D[Vpp]**" to be **10.00 $\pm 0.05V$** .
5. Select group no. "106"; item no. "2" to adjust the voltage of **TP35G** to make the amplitude "**D[Vpp]**" to be **10.00 $\pm 0.05V$** .
6. Select group no. "106"; item no. "3" to adjust the voltage of **TP35B** to make the amplitude "**D[Vpp]**" to be **10.00 $\pm 0.05V$** .



3. Panel Type Check and Setting

* Before setting, you need to check which type of LCD panel is placed on the projector according to the item "LCD Panel/Prism Ass'y removal" in the chapter "Optical Parts Disassembly".

1. Enter the service mode.
2. Panel Type Check
Select group no. "290"; item no. "0". Check the data value as follows;
Data value: 0 For L-Type of LCD Panel
Data value: 20 For R-Type of LCD panel
3. Panel Type Setting
Select group no. "290"; item no. "1" and change data value from 10 to 0 or 20 depending on your LCD Panel type. When the data value reaches 0 or 20, it returns to 10 quickly. The gamma-characteristics changes according to your selection.

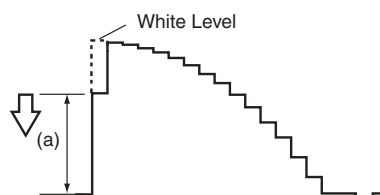
4. Auto Calibration adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
3. To start the auto-calibration for PC adjustment, select group no. "260", item no. "0" and then change data value from "0" to "1". After the auto-calibration completed, "OK" will appear on the screen.

Below adjustments are performed when the above auto calibration is failed.

Gain adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
3. Connect an oscilloscope to test point "TP35G" (+) and chassis ground (-).
4. Select group no. "0", item no. "3" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "TP35R" (+) and chassis ground (-).
6. Select group no. "0", item no. "4" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "TP35B" (+) and chassis ground (-).
8. Select group no. "0", item no. "5" and adjust the amplitude "a" to be minimum by changing the Data value.



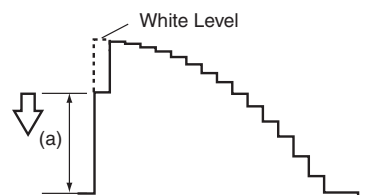
5. Auto Calibration adjustment [Component]

1. Enter the service mode.
2. Receive the 8 color 100% color bar 1080i-component signal with **Computer1 [Component]** mode.
3. To start the auto-calibration for Component adjustment, select group no. "260", item no. "0" and then change data value from "0" to "1". After the auto-calibration completed, "OK" will appear on the screen.

Below adjustments are performed when the above auto calibration is failed.

Gain adjustment [Component]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [Component]** mode.
3. Connect an oscilloscope to test point "TP35G" (+) and chassis ground (-).
4. Select group no. "0", item no. "3" and adjust the amplitude "a" to be minimum by changing the Data value.



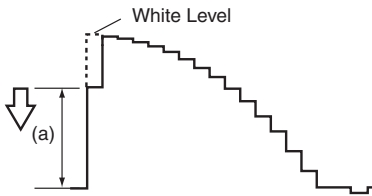
6. Auto Calibration adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
3. To start the auto-calibration for Component adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "OK" will appear on the screen.

below adjustment is performed when the above auto calibration is failed.

Gain adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**20**", item no. "**0**" and adjust the amplitude "**a**" to be minimum by changing the Data value.

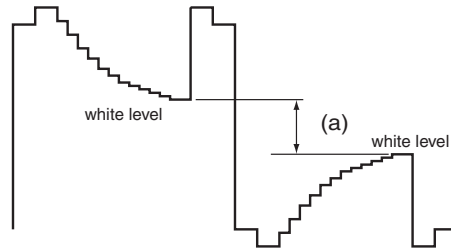


7. Common Center adjustment

1. Enter the service mode.
2. Receive the 50%-Whole Gray computer signal with **Computer2 [RGB]** mode.
3. Select group no. "**104**", item no. "**76**" and change data value to "**2**" to reduce the panel frequency.
4. Project only green light component to the screen.
5. Select group no. "**105**", item no. "**10**" and change data value to obtain the minimum flicker on the screen.
6. Project only red light component to the screen.
7. Select item no. "**9**" and change data value to obtain the minimum flicker on the screen.
8. Project only blue light component to the screen.
9. Select item no. "**11**" and change data value to obtain the minimum flicker on the screen.
10. Select group no. "**104**", item no. "**76**" and change data value to "**0**" to reset the panel frequency.

8. 50% White adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
4. Select group no. "**104**", item no. "**220**" and change data value to adjust amplitude "**a**" to be **1.2V**.



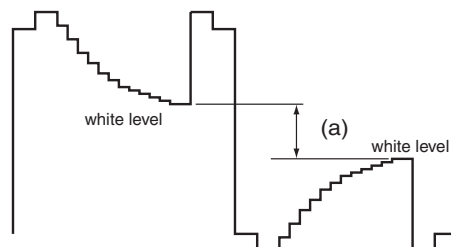
9. White Balance adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step gray scale computer signal with **Computer2 [RGB]** mode.
3. Select group no. "**104**" item no. "**217**" (Red) or "**223**" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

10. 50% White adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video[Video]** mode.
3. Connect an oscilloscope to test point "**TP35G**" (+) and chassis ground (-).
5. Select group no. "**104**", item no. "**220**" and change data value to adjust amplitude "**a**" to be **1.2V**.



11. White Balance adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video[Video]** mode.
3. Select group no. "**104**" item no. "**217**" (Red) or "**223**" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

12. Keystone Offset adjustment

After replacing the G-sensor circuit (IC3851, IC1802 and peripheral circuit), readjust the Keystone Offset adjustment as follows.

1. Put the projector on a horizontal place with the adjustable feet being minimum range and then enter the service mode.
2. Select group no. "**75**", item no. "**3**" and set data value from "**0**" to "**5**".
3. By pressing the **SELECT** button, the Keystone Offset adjustment will start.
4. When it has completed, the "OK" message will appear on the screen.
5. By pressing any button on the projector or the remote control, the "OK" message will disappear. (Data value of Group no. "102", item no. "3" will be back from "5" to "0" for initial value.)

13. Color Shading Correction adjustment

If the correction of the Color shading adjustment is necessary, please adjust the "Color shading" by using the "COLOR SHADING CORRECTION" software supplied separately. The color shading correction adjustment for this model should be performed with the whole-gray patterns specified as below.

4-input patterns:

6% gray, 12.5% gray, 25% gray, 50% gray

Note On White Uniformity Adjustment

If you find the color shading on the screen, please adjust the white uniformity by using the proper computer and "Color Shading Correction" software supplied separately.

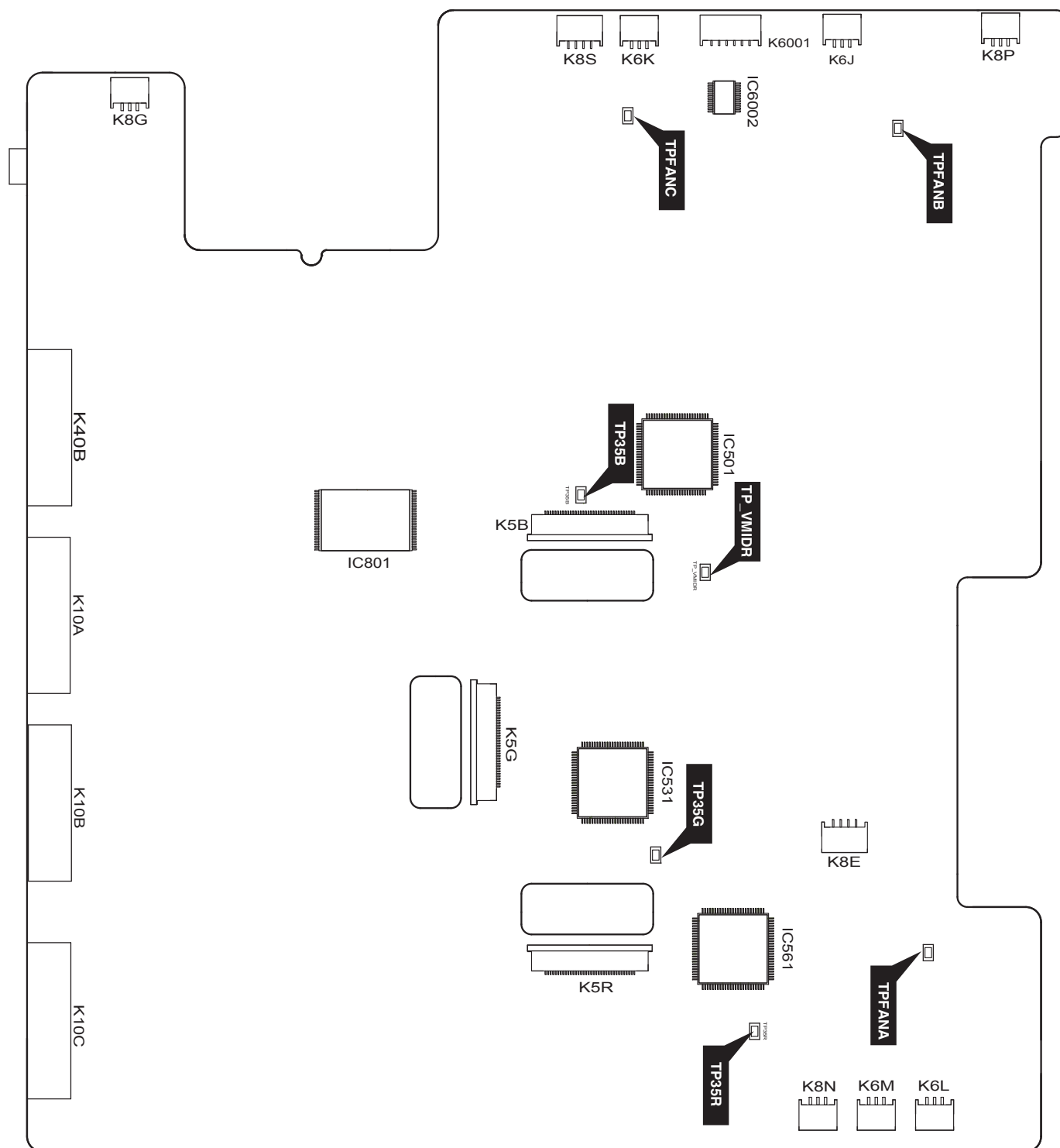
The software can be order as ordered as follows;

COLOR SHADING CORRECTION Ver. 4.00

Service Parts No. 645 075 9611

Test Points and Locations

MAIN BOARD



Service Adjustment Data Table

These initial values are the reference data written from the CPU ROM to memory IC when replaced new memory IC. The adjustment items indicated with“*” are required to readjust following to the“ Electrical adjustments”. Other items should be used with the initial data value.



Group/Item	Item Name	Function	Initial	Range	Note
Group 0	AD Converter (PW392)				
3	ADC G-GAIN	YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50) / SCART	265/200/200/200/200/265	0 - 1023	* G-Gain Adjustmen
4	ADC R-GAIN	YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50) / SCART	265/205/205/205/205/265	0 - 1023	* R-Gain Adjustmen
5	ADC B-GAIN	YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50) / SCART	255/205/205/205/205/265	0 - 1023	* B-Gain Adjustmen
10	SOGTH	RGB / COMPONENT / SCART	2/4/4	0 - 15	
11	SOGHYSDIS	RGB / COMPONENT / SCART	1/1/0	0 - 1	
12	HS1TH	H Sync1 Threshold RGB / COMPONENT / SCART	*4/4	0 - 15	
13	HS0TH	H Sync0 Threshold RGB / COMPONENT / SCART	*4/4	0 - 15	
Group 10	Sync Processor				
3	ADC G-GAIN	PC/YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50)	235/120/120/135/135	0 - 1023	
4	ADC R-GAIN	PC/YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50)	235/140/140/155/155	0 - 1023	
5	ADC B-GAIN	PC/YCbCr 480i (575i) / YCbCr 480p (575p) / YCbCr 720p (720p50) / YCbCr 1080i (1035i, 1080i50)	235/140/140/155/155	0-1023	
Group 20	Video Decoder *R : Read Only Value				
0	Y Level	Composite / S-Video - Y Level (ADC RGB Gain)	175/185	0 - 1023	Composite / S-Video * Gain Adjustment [Video]
1	C Level	Composite / S-Video - C Level (ADC Saturation)	405/440	0 - 1023	Composite / S-Video
10	XCXL Parameter	XCXL Level	2	0-4	NTSC/PAL
11	Sync Amp Low	Minimum sync amplitude threshold for HLOCK 1 to 0 transition	0x0700	0 - 9999	NTSC/PAL
12	Sync Amp High	Minimum sync amplitude threshold for HLOCK 0 to 1 transition	0x1000	0 - 9999	NTSC/PAL
13	Luma Setup Enable	75IRE Mode	0	0 - 1	Effective only NTSC Signal
14	Anti-Alias Filter	Anti-Alias Filter	4	0-7	
15	Anti-Alias Downsample	Anti-Alias Downsample	3	0-3	
16	Anti-Alias High Frequency	Anti-Alias High Frequency	3	0-3	
20	Comb 3D Cross-Luma Top/Bottom Amplitude	for PAL/SECAM only	3	0-3	
Group 35	DVI Equalizer(DS16E5110)				
0	CH0 Boost Data	DVI Equalizer CHO Boost Value	-	0 - 7	
1	CH1 Boost Data	DVI Equalizer CH1 Boost Value	-	0 - 7	
2	CH2 Boost Data	DVI Equalizer CH2 Boost Value	-	0 - 7	
Group 40	General				
0	IP Mode	Sets for IP Off	1	0 - 1	0: IP Block not used 1: IP OFF used with IP Block
1	3:2 PullDown Mode	bit0 : Global Motion bit1 : Video Motion	1	1 - 3	bit0 : Global Motion bit1 : Video Motion
2	Detect Film Mode Enable	0 : 2:3pull down & 2:2pull down 1 : 2:3pull down 2 : 2:2pull down	0	0 - 2	0 : 2:3pull down & 2:2pull down 1 : 2:3pull down 2 : 2:2pull down
3	NR Enable for Digital YUV	0: Detect Y or UV, Noise Reduction 1: Detect Y, YUV for Noise Reduction	1	0 - 1	
4	NR Enable for Digital YUV	Analog YUV : PC/Video/S-Video/ Component Digital YUV : HDMI <NSYUVEN>	0	0 - 1	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
Group 41	Deinterlacer setting Effective only for Progressive Mode 1, Film mode.				
0	Motion Adaptive Weight Value	<KDEINT>	30	0 - 255	
1	Angle Interpolation Level	0 : Conservative <===== 4 : Aggressive	4	0 - 5	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 255	
Group 42	Deinterlacer setting Effective only for Progressive Mode2 mode.				
0	Motion Adaptive Weight Value	<KDEINT>	0	0 - 255	
1	Angle Interpolation Level	0 : Conservative <===== 4 : Aggressive	2	0 - 5	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 255	
Group 47	Noise Reduction (Time) Effective only for N.R L1				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	100	0 - 255	
Group 49	Noise Reduction (Time) Effective only for N.R L2				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	100	0 - 255	
Group 50	2:2pull down setting				
0	22Film Mode Sensitivity	Film Detection Sensitivity <FILMSTVT22>	4	1 - 5	
1	22Film Mode Threshold Low	<FILMTHRD22A>	80	0 - 1023	
2	22Film Mode Threshold High	<FILMTHRD22B>	120	0 - 1023	
3	Video Motion Window Start X	<VOFSTARX>	10	0 - 255	
4	Video Motion Window Start X	<VOFSTARX>	10	0 - 255	
5	Video Motion Window Start Y	<VOFSTARY>	10	0 - 255	
6	Video Motion Window Start Y	<VOFSTARY>	10	0 - 255	
Group 51	2:3pull down setting				
0	Global Motion Sensitivity	Film Detection Sensitivity <FILMSTVT23>	4	1 - 5	
1	Video Motion Sensitivity	Film Detection Sensitivity <VOFSTVT>	4	1 - 5	
2	Video Motion Threshold Low	<VOFTHRDA>	120	0 - 1023	
3	Video Motion Threshold High	<VOFTHRDB>	180	0 - 1023	
4	Global Motion Threshold	<GMDTHRD>	100	0 - 1023	
5	23Film Mode Threshold	<FILMTHRD23>	10	0 - 1023	
6	Global Motion Window Start X	<GMDSTARX>	10	0 - 255	Range of detective for Film mode
7	Global Motion Window Stop X	<GMDSTOPX>	10	0 - 255	Range of detective for Film mode
8	Global Motion Window Start Y	<GMDSTARY>	10	0 - 255	Range of detective for Film mode
9	Global Motion Window Stop Y	<GMDSTOPY>	10	0 - 255	Range of detective for Film mode
Group 55	LTI /CTI				
0	Video Enhancement Enable	VEHEN	1	0 - 1	
1	DLTI Gain	DLTIGAIN	3	0 - 15	

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
2	DLTI Frequency	DLTIFREQ	2	0 - 3	
3	Bypass Anti-Alias Filter	DTIBYPASSAAL	0	0 - 1	
4	Lower DCTI Frequency	LOWERDCTIFREQ	1	0 - 1	
5	DCTI Gain	DCTIGAIN	4	0 - 15	
6	DCTI Frequency	DCTIFREQ	0	0 - 3	
7	Color Shift Limit	COLORSHIFTLMT	3	0 - 3	
Group 60	Image				
0	Center Contrast		534/534/578/492/492/512	0 - 1023	
1	Center Brightness		512/512/512/512/512/512	0 - 1023	
2	Center Color		560/560/512/512/560/512	0 - 1023	
3	Center Tint		90/90/90/90/90/90	0-180	
4	Fixed Sharpness (Up Scaling)		8/8/8/8/8/8	0 - 37	
5	Fixed Sharpness (Down Scaling)		8/8/8/8/8/8	0 - 37	
6	Center Sharpness(Models without FPGA)		8/8/10/16/10/16/	0 - 37	Composite / S-Video / Component / Digital /D-RGB-Video /AnalogRGB / RGB-Video / HDCP-PC /HDCP-AV /SCART / PJ-Net
7	Center WB Red		512/512/512/512/512/512	0 - 1023	Setting Value= (MENU Value - MENU Center Value) x Alpha / 10 + Center
8	Center WB Green		512/512/512/512/512/512	0 - 1023	For moels without FPGA:
9	Center WB Blue		512/512/512/512/512/512	0 - 1023	Sharpness setting Value=
10	Center BB Red		512/512/512/512/512/512	0 - 1023	Center-(Menu Value-MENU Center Value)xAlpha/10
11	Center BB Green		512/512/512/512/512/512	0 - 1023	[Setting Value to PW]
12	Center BB Blue		512/512/512/512/512/512	0 - 1023	Contrast [Max] 1023 [Min] 0
13	Alpha Contrast		60/60/60/60/60/60	0-1000	Brightness [Max] 1023 [Min] 0
14	Alpha Brightness		90/90/90/90/90/90	0-1000	Color [Max] 1023 [Min] 0
15	Alpha Color		140/140/140/140/140/140	0-1000	Tint [Max] 180 [Min] 0
16	Alpha Tint		10/10/10/10/10/10	0-1000	Sharpness [Max] 57 [Min] 0
17	Alpha Sharpness		10/10/10/10/10/10	0-1000	
18	Alpha WB Red		40/40/40/40/40/40	0- 1000	
19	Alpha WB Green		40/40/40/40/40/40	0- 1000	
20	Alpha WB Blue		40/40/40/40/40/40	0-1000	
21	Alpha BB Red		20/20/20/20/20/20	0-1000	
22	Alpha BB Green		20/20/20/20/20/20	0-1000	
23	Alpha BB Blue		20/20/20/20/20/20	0-1000	
Group75 : Auto Keystone Setup Value					
0	OFFSET		0	-1056 - 1056	
1	OFFSET SWITCH		0	0 - 1	
2	DEBUG MODE		0	0 - 1	
3	SERVICE CALIBRATION		0	0 - 1	
4	LOCK COUNT		5	1 - 255	
5	DELT VERT RESULT		64	1 - 255	
6	ANGLE 1 COUNT		1	1 - 10	
7	ANGLE 2 COUNT		5	1 - 10	
8	BLIND SECTOR 1		160	0 - 1024	
9	BLIND SECTOR 3		32	0 - 1024	
10	BLIND SECTOR BIAS		61	0 - 1024	
Group104 : Panel (EP7111) Services					
0	FRP_SET		100	0-4095	
1	DXOut_R		266	0 - 1023	
2	DXOut_G		266	0 - 1023	
3	DXOut_B		266	0-1023	
4	H_Change_Pos		26	0-256	
5	SH_Pos		273	0-4095	
6	SH_Pos_R		1	0-12	
7	SH_Pos_G		1	1 - 12	
8	SH_Pos_B		1	0 - 12	
9	NGR_Pos		48	0 - 127	
10	NGR_Width		51	0 - 255	
11	FRP_Pos		27	0 - 255	
12	SWAP_InOut		1093	0 - 2047	
13	OSD_Pos		2	0 - 3	
14	OSD_Ptn		0	0 - 9	
15	GammaCtrl		3	0 - 1023	
16	GammaCtrl_Ena		1	0 - 1	1: Enable, 0: Disable
17	GammaCtrl_PreEnable		0	0 - 1	1: Enable, 0: Disable

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
18	REF_GatePos		46	0 - 1023	
19	REF_GateDur		155	0 - 1023	
20	BasePos_R		6	0 - 11	
21	BasePos_G		6	0 - 11	
22	BasePos_B		6	0 - 11	
23	RGB_slDEmODE		0	0 - 7	
24	LineCont		0	0 - 4095	
25	GhostPos_R		6	0 - 23	
26	GhostPos_G		6	0 - 23	
27	GhostPos_B		6	0 - 23	
28	GHOSTCoef_R_C		0	0-2047	MIN<-->MAX cyclation
29	GHOSTCoef_R_S		128	0-255	
30	GHOSTCoef_R_E		128	0-255	
31	GHSTCoef_G_C		0	0-2047	MIN<-->MAX cyclation
32	GHSTCoef_G_S		128	0-255	
33	GHSTCoef_G_E		128	0-255	
34	GHSTCoef_B_C		0	0-2047	MIN<-->MAX cyclation
35	GHSTCoef_B_S		128	0-255	
36	GHSTCoef_B_E		128	0-255	
37	GHSTCoef_1R		0	0-2047	MIN<-->MAX cyclation
38	GHSTCoef_1G		0	0-2047	MIN<-->MAX cyclation
39	GHSTCoef_1B		0	0-2047	MIN<-->MAX cyclation
40	GHSTCoef_2R		0	0-2047	MIN<-->MAX cyclation
41	GHSTCoef_2G		0	0-2047	MIN<-->MAX cyclation
42	GHSTCoef_2B		0	0-2047	MIN<-->MAX cyclation
43	BlkGHSTCoef_R		0	0-2047	MIN<-->MAX cyclation
44	BlkGHSTCoef_G		0	0-2047	MIN<-->MAX cyclation
45	BlkGHSTCoef_B		0	0-2047	MIN<-->MAX cyclation
46	CRSTLKCoef_R_C		0	0-2047	MIN<-->MAX cyclation
47	CRSTLKCoef_R_S		128	0-255	
48	CRSTLKCoef_R_E		133	0-255	
49	CRSTLKCoef_G_C		0	0-2047	MIN<-->MAX cyclation
50	CRSTLKCoef_G_S		128	0-255	
51	CRSTLKCoef_G_E		133	0-255	
52	CRSTLKCoef_B_C		0	0-2047	MIN<-->MAX cyclation
53	CRSTLKCoef_B_S		128	0-255	
54	CRSTLKCoef_B_E		133	0-255	
55	ColshdCtrl		16	0-511	
56	ColshdCtrl_Ena		1	0-1	1: Enable, 0: Disable
57	ColshdCtrl_PreEna		0	0-1	1: Enable, 0: Disable
58	Colshd_RLMin		257	0-1023	
59	Colshd_RLMid2		419	0-1023	
60	Colshd_RLMid1		559	0-1023	
61	Colshd_RLMax		671	0-1023	
62	Colshd_GLMin		257	0-1023	
63	Colshd_GLMid2		419	0-1023	
64	Colshd_GLMid1		559	0-1023	
65	Colshd_GLMax		671	0-1023	
66	Colshd_BLMin		257	0-1023	
67	Colshd_BLMid2		419	0-1023	
68	Colshd_BLMid1		559	0-1023	
69	Colshd_BLMax		671	0-1023	
70	Colshd_Pre_Tbl		0	0-255	
71	EnaHSync		1	0-1	
72	OutPPos_H		120	0-2047	
73	Pixel_CONT_Out		2048	0-4095	
74	H_Sync		0	0-2047	
75	V_Sync		3	0-255	
76	FlickerMode		0	0-3	
77	EnaVSync		0	0-1	
78	EnbyPosUp1		32	0-255	
79	EnbyPosDwn1		827	0-1023	
80	EnbyPosUp2		32	0-255	
81	EnbyPosDwn2		827	0-1023	
82	FrmlRRMode		0	0-3	
83	CRCTCoef_R_C		0	0-2047	
84	CRCTCoef_R_S		128	0-255	
85	CRCTCoef_R_E		128	0-255	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
86	CRCTCoef_G_C		0	0-2047	
87	CRCTCoef_G_S		128	0-255	
88	CRCTCoef_G_E		128	0-255	
89	CRCTCoef_B_C		0	0-2047	
90	CRCTCoef_B_S		128	0-255	
91	CRCTCoef_B_E		128	0-255	
92	CRSTLK_COEF2_R_C		2045	0-2047	
93	CRSTLK_COEF2_R_S		128	0-255	
94	CRSTLK_COEF2_R_E		128	0-255	
95	CRSTLK_COEF2_G_C		2045	0-2047	
96	CRSTLK_COEF2_G_S		128	0-255	
97	CRSTLK_COEF2_G_E		128	0-255	
98	CRSTLK_COEF2_B_C		2045	0-2047	
99	CRSTLK_COEF2_B_S		128	0-255	
100	CRSTLK_COEF2_B_E		128	0-255	
101	OutputLimitMax_R		4095	0-4095	
102	OutputLimitMax_G		4095	0-4095	
103	OutputLimitMax_B		4095	0-4095	
104	VideoRRefCont_H		4088	0-4095	
105	VideoRRefCont_L		450	0-4095	
106	DCOffset_MNS_R		0	0-1023	
107	DCOffset_MNS_R_01		0	0-2047	
108	DCOffset_MNS_R_02		0	2047	
109	DCOffset_MNS_R_03		0	0-2047	
110	DCOffset_MNS_R_04		0	0-2047	
111	DCOffset_MNS_R_05		0	0-2047	
112	DCOffset_MNS_R_06		0	0-2047	
113	DCOffset_MNS_R_07		0	0-2047	
114	DCOffset_MNS_R_08		0	0-2047	
115	DCOffset_MNS_R_09		0	0-2047	
116	DCOffset_MNS_R_10		0	0-2047	
117	DCOffset_MNS_R_11		0	0-2047	
118	DCOffset_MNS_R_12		0	0-2047	
119	DCOffset_PLS_R		0	0-1023	MIN<-->MAX cyclation
120	DCOffset_PLS_R_01		0	0-2047	MIN<-->MAX cyclation
121	DCOffset_PLS_R_02		0	0-2047	MIN<-->MAX cyclation
122	DCOffset_PLS_R_03		0	0-2047	MIN<-->MAX cyclation
123	DCOffset_PLS_R_04		0	0-2047	MIN<-->MAX cyclation
124	DCOffset_PLS_R_05		0	0-2047	MIN<-->MAX cyclation
125	DCOffset_PLS_R_06		0	0-2047	MIN<-->MAX cyclation
126	DCOffset_PLS_R_07		0	0-2047	MIN<-->MAX cyclation
127	DCOffset_PLS_R_08		0	0-2047	MIN<-->MAX cyclation
128	DCOffset_PLS_R_09		0	0-2047	MIN<-->MAX cyclation
129	DCOffset_PLS_R_10		0	0-2047	MIN<-->MAX cyclation
130	DCOffset_PLS_R_11		0	0-2047	MIN<-->MAX cyclation
131	DCOffset_PLS_R_12		0	0-2047	MIN<-->MAX cyclation
132	Lvl9Mode_R_0000		18	0-1023	MIN<-->MAX cyclation
133	Lvl9Mode_R_0512		15	0-1023	MIN<-->MAX cyclation
134	Lvl9Mode_R_1024		12	0-1023	MIN<-->MAX cyclation
135	Lvl9Mode_R_1536		8	0-1023	MIN<-->MAX cyclation
136	Lvl9Mode_R_2048		2	0-1023	MIN<-->MAX cyclation
137	Lvl9Mode_R_2560		1023	0-1023	MIN<-->MAX cyclation
138	Lvl9Mode_R_3072		1020	0-1023	MIN<-->MAX cyclation
139	Lvl9Mode_R_3584		1018	0-1023	MIN<-->MAX cyclation
140	Lvl9Mode_R_4096		1018	0-1023	MIN<-->MAX cyclation
141	VideoGRefCont_H		4088	0-4095	
142	VideoGRefCont_L		450	0-4095	
143	DCOffset_MNS_G		0	0-1023	
144	DCOffset_MNS_G_01		0	0-2047	MIN<-->MAX cyclation
145	DCOffset_MNS_G_02		0	0-2047	MIN<-->MAX cyclation
146	DCOffset_MNS_G_03		0	0-2047	MIN<-->MAX cyclation
147	DCOffset_MNS_G_04		0	0-2047	MIN<-->MAX cyclation
148	DCOffset_MNS_G_05		0	0-2047	MIN<-->MAX cyclation
149	DCOffset_MNS_G_06		0	0-2047	MIN<-->MAX cyclation
150	DCOffset_MNS_G_07		0	0-2047	MIN<-->MAX cyclation
151	DCOffset_MNS_G_08		0	0-2047	MIN<-->MAX cyclation
152	DCOffset_MNS_G_09		0	0-2047	MIN<-->MAX cyclation
153	DCOffset_MNS_G_10		0	0-2047	MIN<-->MAX cyclation

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
154	DCOffset_MNS_G_11		0	0-2047	MIN<-->MAX cyclation
155	DCOffset_MNS_G_12		0	0-2047	MIN<-->MAX cyclation
156	DCOffset_PLS_G		0	0-1023	MIN<-->MAX cyclation
157	DCOffset_PLS_G_01		0	0-2047	MIN<-->MAX cyclation
158	DCOffset_PLS_G_02		0	0-2047	MIN<-->MAX cyclation
159	DCOffset_PLS_G_03		0	0-2047	MIN<-->MAX cyclation
160	DCOffset_PLS_G_04		0	0-2047	MIN<-->MAX cyclation
161	DCOffset_PLS_G_05		0	0-2047	MIN<-->MAX cyclation
162	DCOffset_PLS_G_06		0	0-2047	MIN<-->MAX cyclation
163	DCOffset_PLS_G_07		0	0-2047	MIN<-->MAX cyclation
164	DCOffset_PLS_G_08		0	0-2047	MIN<-->MAX cyclation
165	DCOffset_PLS_G_09		0	0-2047	MIN<-->MAX cyclation
166	DCOffset_PLS_G_10		0	0-2047	MIN<-->MAX cyclation
167	DCOffset_PLS_G_11		0	0-2047	MIN<-->MAX cyclation
168	DCOffset_PLS_G_12		0	0-2047	MIN<-->MAX cyclation
169	Lvl9Mode_G_0000		18	0-1023	MIN<-->MAX cyclation
170	Lvl9Mode_G_0512		15	0-1023	MIN<-->MAX cyclation
171	Lvl9Mode_G_1024		12	0-1023	MIN<-->MAX cyclation
172	Lvl9Mode_G_1536		8	0-1023	MIN<-->MAX cyclation
173	Lvl9Mode_G_2048		2	0-1023	MIN<-->MAX cyclation
174	Lvl9Mode_G_2560		1023	0-1023	MIN<-->MAX cyclation
175	Lvl9Mode_G_3072		1020	0-1023	MIN<-->MAX cyclation
176	Lvl9Mode_G_3584		1018	0-1023	MIN<-->MAX cyclation
177	Lvl9Mode_G_4096		1018	0-1023	MIN<-->MAX cyclation
178	VideoBRefCont_H		450	0-4095	
179	VideoBRefCont_L		4088	0-4095	
180	DCOffset_MNS_B		0	0-1023	MIN<-->MAX cyclation
181	DCOffset_MNS_B_01		0	0-2047	MIN<-->MAX cyclation
182	DCOffset_MNS_B_02		0	0-2047	MIN<-->MAX cyclation
183	DCOffset_MNS_B_03		0	0-2047	MIN<-->MAX cyclation
184	DCOffset_MNS_B_04		0	0-2047	MIN<-->MAX cyclation
185	DCOffset_MNS_B_05		0	0-2047	MIN<-->MAX cyclation
186	DCOffset_MNS_B_06		0	0-2047	MIN<-->MAX cyclation
187	DCOffset_MNS_B_07		0	0-2047	MIN<-->MAX cyclation
188	DCOffset_MNS_B_08		0	0-2047	MIN<-->MAX cyclation
189	DCOffset_MNS_B_09		0	0-2047	MIN<-->MAX cyclation
190	DCOffset_MNS_B_10		0	0-2047	MIN<-->MAX cyclation
191	DCOffset_MNS_B_11		0	0-2047	MIN<-->MAX cyclation
192	DCOffset_MNS_B_12		0	0-2047	MIN<-->MAX cyclation
193	DCOffset_PLS_B		0	0-1023	MIN<-->MAX cyclation
194	DCOffset_PLS_B_01		0	0-2047	MIN<-->MAX cyclation
195	DCOffset_PLS_B_02		0	0-2047	MIN<-->MAX cyclation
196	DCOffset_PLS_B_03		0	0-2047	MIN<-->MAX cyclation
197	DCOffset_PLS_B_04		0	0-2047	MIN<-->MAX cyclation
198	DCOffset_PLS_B_05		0	0-2047	MIN<-->MAX cyclation
199	DCOffset_PLS_B_06		0	0-2047	MIN<-->MAX cyclation
200	DCOffset_PLS_B_07		0	0-2047	MIN<-->MAX cyclation
201	DCOffset_PLS_B_08		0	0-2047	MIN<-->MAX cyclation
202	DCOffset_PLS_B_09		0	0-2047	MIN<-->MAX cyclation
203	DCOffset_PLS_B_10		0	0-2047	MIN<-->MAX cyclation
204	DCOffset_PLS_B_11		0	0-2047	MIN<-->MAX cyclation
205	DCOffset_PLS_B_12		0	0-2047	MIN<-->MAX cyclation
206	Lvl9Mode_B_0000		18	0-2047	MIN<-->MAX cyclation
207	Lvl9Mode_B_0512		15	0-1023	MIN<-->MAX cyclation
208	Lvl9Mode_B_1024		12	0-1023	MIN<-->MAX cyclation
209	Lvl9Mode_B_1536		8	0-1023	MIN<-->MAX cyclation
210	Lvl9Mode_B_2048		2	0-1023	MIN<-->MAX cyclation
211	Lvl9Mode_B_2560		1023	0-1023	MIN<-->MAX cyclation
212	Lvl9Mode_B_3072		1020	0-1023	MIN<-->MAX cyclation
213	Lvl9Mode_B_3584		1018	0-1023	MIN<-->MAX cyclation
214	Lvl9Mode_B_4096		1018	0-1023	MIN<-->MAX cyclation
215	VideoCont_R		2048	0-4095	Standard
			2048	0-4095	Dynamic
			2000	0-4095	Real
			2048	0-4095	BlackBoard
			2048	0-4095	R_Board
			2048	0-4095	B_Board
			2048	0-4095	Y_Board

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
216	VideoBright_R		0	0-4095	Standard
			0	0-4095	Dynamic
			0	0-4095	Real
			24	0-4095	BlackBoard
			0	0-4095	R_Board
			30	0-4095	B_Board
			0	0-4095	Y_Board
			24	0-4095	G_Board
			2048	0-2048	PC
			2048	0-2048	AV
217	VideoGammaShift_R		2048	0-4095	Standard
			2048	0-4095	Dynamic
			2000	0-4095	Real
			2000	0-4095	BlackBoard
			2010	0-4095	R_Board
			2000	0-4095	B_Board
218	VideoCont_G		1900	0-4095	Y_Board
			1940	0-4095	G_Board
			0	0-4095	Standard
			0	0-4095	Dynamic
			0	0-4095	Real
			0	0-4095	BlackBoard
219	VideoBright_G		24	0-4095	R_Board
			24	0-4095	B_Board
			0	0-4095	Y_Board
			0	0-4095	G_Board
			2048	0-2048	PC
			2048	0-2048	AV
220	VideoGammaShift_G		2048	0-4095	Standard
			2048	0-4095	Dynamic
			2000	0-4095	Real
			2048	0-4095	BlackBoard
			2048	0-4095	R_Board
			1860	0-4095	B_Board
221	VideoCont_B		2048	0-4095	Y_Board
			2020	0-4095	G_Board
			0	0-4095	Standard
			0	0-4095	Dynamic
			0	0-4095	Real
			0	0-4095	BlackBoard
222	VideoBright_B		40	0-4095	R_Board
			0	0-4095	B_Board
			36	0-4095	Y_Board
			24	0-4095	G_Board
			2048	0-2048	PC
			2048	0-2048	AV
Group 105	Panel Services(6170)				
	0	201_R	4	0-31	
	1	601_G	4	0-31	
	2	A01_B	4	0-31	
	3	202_R	40	28-64	
	4	602_G	40	28-64	
	5	A02_B	40	28-64	
	6	205_R	26	0-31	
	7	605_G	26	0-31	
	8	A05_B	26	0-31	
	9	300_R	130	0-255	
	10	700_G	130	0-255	
	11	B00_B	130	0-255	
Group 106	Panel Service(62334)				
	0	VMID	178	0-255	
	1	VREF_R	242	0-255	
	2	VREF_G	242	0-255	
	3	VREF_B	242	0-255	

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
Group 200	Option				
0	Logo Prohibition (Forced No Brand)	Logo Prohibition (0: Menu, 1: Forced, 2: China, 3-9: not used)	0	0 - 2	Effective after AC On
1	RS232C Baudrate	Baud Rate	0	0 - 2	0: 19200bps, 1: 9600bps, 2: 115200bps
4	CABLE SW	Long Cable	0	0 - 10	0: Disable, 1: Enable
5	PW Debug Command Enable		0	0 - 1	0:Disable (Serial Command Enable) 1: Enable (PW Debug Mode)
6	Device Refresh Disable		0	0 - 1	0:Enable, 1:Disable No last memory
50	Lamp Replacement Display	Lamp Warning Display On / Off	1	0 - 1	1: On, 0: Off
51	Filter Warning Display	Filter Warning Display On / Off	1	0 - 1	1: On, 0: Off
52	Lamp Counter reset Times	Reset Times of Lamp Counter	0	0 - 255	Read only
54	Factory Default Execute Times	Reset times of Fanctory Default	0	0 - 255	Read only
55	Motor Disable	Motors Disable	-	0 - 1	0: On, 1: Off
56	Menu Position	Move menu (X axis)	0	0 - 1024	
57	Menu Position	Move menu (Y axis)	0	0 - 1024	
58	Lamp Go Out		0	0 - 1	
60	Lanuage Default setting	0:English(Default) 1:Japanese	0	0 - 1	Set default language
63	Souce Search Enable	Source Search Enable	1	0 - 1	0: Disable 1:Enable
71	Component ADC Device Select	0: ISK51002, 1:PW392 AFE	0	0 - 1	
80	Determination Setting	0: English 1: Japanese	0	0 - 1	
100	Disable Auto Picture Control	0: Normal operation 1:Auto Picture Control	-	0 - 1	
Group 201	Option (signal)				
0	FrameLock Option		1	0 - 1	0: FrameLockOFF at PC signal 1: FrameLockON at PC signal and 47Hz (Vfreq) - Panel frequency of input signal
1	Dither Enable	0:Disable 1:Enable	1	0 - 1	
3	Field Sense Invert Enable	0: Disable 1: Enable	0	0 - 1	
Group 204	Simulation mode				
0	PW392C Enable		0	0 - 1	
1	PW610 Enable		-	0 - 1	
Group 205	Spread Spectrum				
0	Enable	0: Disable 1: Enable	1	0 - 1	
1	Spead factor	Default: 100	100	0 - 300	
2	Wave period	Default: 300	80	1 - 500	
Group 210	LampContorl				
0	Dimmer SW	0: Auto 1: Manual	0	0 - 1	
1	Manual Control	Lampo manual control 0(Dim)-15(Bright)	0	0 - 15	
2	DIMMER_CTRL_LEVEL1	Luminance Level 1 Data for Dimmer: Dim Level 1 at the less than the Value	7	0 - 255	
3	DIMMER_CTRL_LEVEL2	Luminance Level 2 Data for Dimmer: Dim Level 2 at the less than the Value	14	0 - 255	
4	DIMMER_CTRL_LEVEL3	Luminance Level 3 Data for Dimmer: Dim Level 3 at the less than the Value	21	0 - 255	
5	DIMMER_CTRL_LEVEL4	Luminance Level 4 Data for Dimmer: Dim Level 4 at the less than the Value	28	0 - 255	
6	DIMMER_CTRL_LEVEL5	Luminance Level 5 Data for Dimmer: Dim Level 5 at the less than the Value	35	0 - 255	
7	DIMMER_CTRL_LEVEL6	Luminance Level 6 Data for Dimmer: Dim Level 6 at the less than the Value	42	0 - 255	
8	DIMMER_CTRL_LEVEL7	Luminance Level 7 Data for Dimmer: Dim Level 7 at the less than the Value	49	0 - 255	
9	DIMMER_CTRL_LEVEL8	Luminance Level 8 Data for Dimmer: Dim Level 8 at the less than the Value	56	0 - 255	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
10	DIMMER_CTRL_LEVEL9	Luminance Level 9 Data for Dimmer: Dim Level 9 at the less than the Value	63	0 - 255	
11	DIMMER_CTRL_LEVEL10	Luminance Level 10 Data for Dimmer: Dim Level 10 at the less than the Value	70	0 - 255	
12	DIMMER_CTRL_LEVEL11	Luminance Level 11 Data for Dimmer: Dim Level 11 at the less than the Value	77	0 - 255	
13	DIMMER_CTRL_LEVEL12	Luminance Level 12 Data for Dimmer: Dim Level 12 at the less than the Value	84	0 - 255	
14	DIMMER_CTRL_LEVEL13	Luminance Level 13 Data for Dimmer: Dim Level 13 at the less than the Value	91	0 - 255	
15	DIMMER_CTRL_LEVEL14	Luminance Level 14 Data for Dimmer: Dim Level 14 at the less than the Value	98	0 - 255	
16	DIMMER_CTRL_LEVEL15	Luminance Level 15 Data for Dimmer: Dim Level 15 at the less than the Value	105	0 - 255	
17	DIMMER_AVERAGE_POINT	Luminance Data Average Point for Mimmer	4	0 - 16	
18	DIMMER_AVERAGE_DATA	Luminance Data Average Value for Dimmer	-	-	* Read only
19	DIMMER_LEVEL_AUTO	Current Dimmer Level	-	-	* Read only
20	DIMMER_LEVEL_NORMAL	Normal Dimmer Level	8	0 - 15	
21	DIMMER_LEVEL_ECO	Eco Dimmer Level	0	0 - 15	
23	VOLTAGE_LEVEL	Lamp Voltage	-		Unit: 8bit(Raw Data) * Read only
24	DIMMER_LEVEL_HIGH	Dimmer level High	15	0 - 15	
Group 220 Projector Warning Log					
0	Warning Log_1		-	0-32767	
..	..		-	..	
49	Warning Log_50		-	0-32767	
50	Warning Log Reset		-	0-10	
Group 250 FAN Control					
0	FAN1 MIN ADJUST (DAC)		7	0 - 255	
1	FAN1 MAX ADJUST (DAC)	DAC Output for Fan	224	0 - 255	
2	FAN2 MIN ADJUST (DAC)	Adjust the tolerance of DAC and Fan	13	0 - 255	
3	FAN2 MAX ADJUST (DAC)	Volage.	211	0 - 255	
4	FAN3 MIN ADJUST (DAC)	* Lamp mode is forced Eco	13	0 - 255	
5	FAN3 MAX ADJUST (DAC)		224	0 - 255	
Group 252 Fan Option					
1	SAFETY SWITCH	For test purpose	0	0 - 6	
2	FAN MANUAL SWITCH	0: Auto, 1: Manual	0	0 - 1	
3	FAN1 MANUAL VOLTAGE	Fan Voltage (unit : 0.1V)	100	0 - 145	
4	FAN2 MANUAL VOLTAGE	Effective only when Fan Manual	100	0 - 145	
5	FAN3 MANUAL VOLTAGE	switch is 1	100	0 - 145	
9	All Fan MaxMin Control		0	0 - 6	
Group 253 Fan Tem Error Setting (Memorized)					
			Normal	Ceiling	
0	Temp A Warning (High)	Temp. A to judge the Temp Error at High (Room)	46	46	30-100
1	Temp B Warning (High)	Temp. B to judge the Temp Error at High (Panel)	62	62	30-100
2	Temp C Warning (High)	Temp. C to judge the Temp Error at High (Lamp)	62	62	30-100
3	Temp B-A Warning (High)	Temp. B-A to judge the Temp Error at High (Clogging Det.)	100	100	0-100
4	Temp C-A Warning (High)	Temp. C-A to judge the Temp Error at High (Clogging Det.)	100	100	0-100
5	Temp A Warning (Normal)	Temp. A to judge the Temp Error at Normal (Room)	46	46	30-100
6	Temp B Warning (Normal)	Temp. B to judge the Temp Error at Normal (Panel)	62	62	30-100
7	Temp C Warning (Normal)	Temp. C to judge the Temp Error at Normal (Lamp)	60	60	30-100
8	Temp B-A Warning (Normal)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	0-100

Electrical Adjustments

Group/Item	Item Name	Function	Initial		Range	Note
9	Temp C-A Warning (Normal)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	0-100	
10	Temp A Warning (Eco)	Temp. A to judge the Temp Error at Eco (Room)	46	46	30-100	
11	Temp B Warning (Eco)	Temp. B to judge the Temp Error at Eco (Panel)	62	62	30-100	
12	Temp C Warning (Eco)	Temp. C to judge the Temp Error at Eco (Lamp)	60	60	30-100	
13	Temp B-A Warning (Eco)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	0-100	
14	Temp C-A Warning (Eco)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	0-100	
15	Temp A Warning Offset (Temp)		5		0-100	
16	Temp B Warning Offset (Temp)	Offset of Temp Error (Temp.) Error Setting Value is increased XC at the below condition * Standby * Right to turn on the lamp * Right to change the Lamp mode	15		0-100	
17	Temp C Warning Offset (Temp)		15		0-100	
18	Temp B-A Warning Offset (Temp)		100		0-100	
19	Temp C-A Warning Offset (Temp)		100		0-100	
20	Temp A Warning Offset (Time)		15		0-100	
21	Temp B Warning Offset (Time)	Offset of Temp Error (Minutes) Error Setting Value is increased X minute at the below condition * Standby * Right to turn on the lamp * Right to change the Lamp mode	30		0-100	
22	Temp C Warning Offset (Time)		30		0-100	
23	Temp B-A Warning Offset (Time)		40		0-100	
24	Temp C-A Warning Offset (Time)		40		0-100	
Group 254	Fan Control Range Setting (Temp./Voltage)		Normal	Ceiling		
0	High Fan Control Min Temp	Temp Sensor Control Start/End Temp. at High	38	38	20-100	
1	High Fan Control Max Temp		42	42	20-100	
2	High Fan1 Min	Fan voltage value at High (unit: 0.1V)	95	95	0-255	
3	High Fan1 Max		135	135	0-255	
4	High Fan2 Min		85	85	0-255	
5	High Fan2 Max		130	130	0-255	
6	High Fan3 Min		75	75	0-255	
7	High Fan3 Max		77	77	0-255	
12	Normal Fan Control Min Temp	Temp Sensor Control Start/End Temp. at Normal	38	38	20-100	
13	Normal Fan Control Max Temp		42	42	20-100	
14	Normal Fan1 Min	Fan voltage value at Normal (unit: 0.1V)	80	80	0-255	
15	Normal Fan1 Max		125	125	0-255	
16	Normal Fan2 Min		75	75	0-255	
17	Normal Fan2 Max		80	120	0-255	
18	Normal Fan3 Min		70	70	0-255	
19	Normal Fan3 Max		70	70	0-255	
24	Eco Fan Control Min Temp	Temp Sensor Control Start/End Temp. at Eco	36	36	20-100	
25	Eco Fan Control Max Temp		42	42	20-100	
26	Eco Fan1 Min	Fan voltage value at Eco (unit: 0.1V)	65	65	0-255	
27	Eco Fan1 Max		115	115	0-255	
28	Eco Fan2 Min		70	70	0-255	
29	Eco Fan2 Max		110	110	0-255	
30	Eco Fan3 Min		53	53	0-255	
31	Eco Fan3 Max		53	53	0-255	
Group 255	Fan Start/Cooling Setting					
0	Fan1 Initial Volt	Fan Start Voltage (0.1V)	60		0-145	
1	Fan2 Initial Volt		60		0-145	
2	Fan3 Initial Volt		60		0-145	
8	Cooling Time L1	Cooling Time stting at Fan Mode L1 (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	3		1-15	
9	Cooling Time L2	Cooling Time stting at Fan Mode L2 (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	4		1-15	
10	Temp Error Cooling Time	Cooling Time setting at Temp Erro (x 30 sec)	3		1-15	

Electrical Adjustments

Group/Item	Item Name	Function	Initial	Range	Note
11	OnStart Cooling Start Thresh-old		60	0-100	
12	After shutdown cooling	Cooling after shutdown (0: No, 1: Yes)	1	0-1	
Group 257	Fan Dimmer Setting				
0	Dimmer Average Check Period	Dimmer Average measurement Time (0:10sec, 1:30sec, 2:6sec, 90sec...10:300sec)	1	0-10	
Group 258	Fan IC Temp for Netowrk model				
0	Standby Cooling Check Cycle	Temp A check cycle at Standby	5	0-100	
1	Standby Cooling Start Threshold	Cooling start threshold temp A	46	0-100	
2	Standby Cooling Enable	Cooling in standby Enable	1	0-1	
Group 260	Auto Calibration (Commn) * Auto Calibration				
0	Execute Calibration		0	0 - 1	Executes Auto-Calibration when changing the Value (PC White 100%)
1	Loop Count	Maximum Execution Times (OFFSET->GAIN)	8	1 - 30	
2	Auto Status	Result of Auto-Calibration (Last Memory)	0	0 / 1 / 9	0: OK, 1: Adjusting,9: Error * ReadOnly
3	AutoWait	Wait Value for each setting	3	1 - 20	
4	CHECK -Tolerance	Tolerance of OFFSET	4	1 - 255	
5	Time out wait	Time out waiting time(sec)	20	1-255	
Group 261	Auto Calibration (RGB)				
0	OFFSET AREA H START	Black Level Acquiring Area H-Start Position	975	0 - 1000	
1	OFFSET AREA V START	Black Level Acquiring Area V-Start Position	500	0 - 1000	
2	GAIN AREA H START	White Level Acquiring Area H-Start Position	25	0 - 1000	
3	GAIN AREA V START	White Level Acquiring Area V-Start Position	500	0 - 1000	
4	Image AREA H WIDTH	Black/White Level Acquiring Area	13	0 - 4095	
5	Image AREA V HIGHT	Black/White Level Acquiring Area Height	9	0 - 4095	
6	OFFSET target	Target Value of Black Level Adj.	20	0 - 1023	
7	OFFSET torelance	Tolerance of Black Level Adj.	1	1 - 1023	
8	GAIN target	Target Value of White Level Adj.	980	0 - 1023	
9	GAIN torelance	Tolerance of White Level Adj.	1	1 - 1023	
10	Image Level tolerance		8	1-255	
Group 262	Auto Calibration (CVBS/SVIDEO)				
0	Y Image Area Start X	Y Acquiring Area H-Start Position	20	0 - 1000	
1	Y Image Area Start Y	Y Acquiring Area V-Start Position	200	0 - 1000	
6	Image Area H Width	Image Level Acquiring Area	8	0 - 4095	
7	Image Area V Hight	Image Level Acquiring Area Height	9	0 - 4095	
8	Y Target Level	Target Value of Y Level Adj.	915	0 - 1023	
11	Gain Tolerance	Tolerance of Level Adj.	1	1 - 255	
12	Delta Gain	Deviation Width of Gain Value	2	1 - 255	
Group 264	Auto Calibration (YCbCr)				
0	Y-OFFSET AREA H START	Y - Offset Acquiring Area H-Start Position	925	0 - 1000	
1	Y-OFFSET AREA V START	Y - Offset Acquiring Area V-Start Position	500	0 - 1000	
2	CB - OFFSET AREA H START	CB - Offset Acquiring Area H-Start Position	925	0 - 1000	If not used: use Y's value
3	CB - OFFSET AREA V START	CB - Offset Acquiring Area V-Start Position	500	0 - 1000	If not used: use Y's value
4	CR - OFFSET AREA H START	CR - Offset Acquiring Area H-Start Position	925	0 - 1000	If not used: use Y's value
5	CR - OFFSET AREA V START	CR - Offset Acquiring Area V-Start Position	500	0 - 1000	If not used: use Y's value
6	Y - GAIN AREA H START	Y	50	0 - 1000	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
7	Y - GAIN AREA V START		500	0 - 1000	
8	CB - GAIN AREA H START		800	0 - 1000	
9	CB - GAIN AREA V START		500	0 - 1000	
10	CR - GAIN AREA H START		700	0 - 1000	
11	CR - GAIN AREA V START		500	0 - 1000	
12	Image AREA H WIDTH	YCBCR Level Acquiring Area	13	0 - 4095	
13	Image AREA V HIGHT	YCBCR Level Acquiring Area Height	9	0 - 4095	
14	Y - OFFSET TARTGET		4	0 - 1023	
15	CB OFFSET TARGET		512	0 - 1023	
16	CR OFFSET TARGET		512	0 - 1023	
17	Y - GAIN TARGET		900	0 - 1023	
18	CB - GAIN TARGET		985	0 - 1023	
19	CR - GAIN TARGET		985	0 - 1023	
20	OFFSET torelance	Torelance of OFFSET Adj.	1	1 - 255	
21	GAIN torelance	Torelance of GAIN Adj.	2	1 - 255	
22	Image Level Tolerance		8	1 - 255	
Group 280 AutoPC Adjsut					
0	AutoPCAdjustEnable	Auto-PC Adj Operation Enable if Un-supported Signal Input	0	0 - 1	0: Enable, 1: Disable
1	Frequency Step	Frequency Steps of TotalDot	1	0-3	
2	Frequency Threshold	Total Dot Frequency Threshold	5	0 - 10	0 [] <--- ----> 10[Not matched]
3	Fine Phase	Do Phase Adj after Total Dot Adj.	1	0 - 1	0: Executes Fine Phase, 1: Not Execute
4	BLKDET	Black Level Detection Area	1	0 - 3	
5	PHASEMSK	Phase Detection Filter	0	0 - 3	0: Effective All Bit, 1: Disable Lower 1 bit 2: Disable Lower 2 bit, 3: Disable Lower 3 bit
Group 290 PanelType * Panel Type Check					
0	GammaL/R-View	Current Setting Check	0	0-20	0: Gamma for L-Turn 20: Gamma for R-Turn * Read only
1	GammaL/R-Change	Setting of Gamma	10	0-20	Sets L-Turn Gamma if the Value is set to 0. Sets R-Turn Gamma if the Value is set to 20.
Group 300 Closed capture					
0	Caption Mode	Capture Mode: OFF/CC1/CC2/CC3/CC4	0	0-5	
1	Color Mode	Color Mode	0	0-1	
2	Multi Window Caption	PIP: Closed cation display ON/OFF swith turning on the Main screen 0:OFF 1:ON	0	0-1	
Group 500 Composite (NTSC) Composite / S-Video					
1	Disp Dots		674	0 - 4095	
2	H Back Porch		24	0 - 4095	
3	V Back Porch		18	0 - 4095	
4	Disp Line		454	0 - 4095	
Group 501 Composite (PAL) Composite / S-Video					
1	Disp Dots		662	0 - 4095	
2	H Back Porch		30	0 - 4095	
3	V Back Porch		18	0 - 4095	
4	Disp Line		542	0 - 4095	
Group 502 Composite (SECAM) Composite / S-Video					
1	Disp Dots		662	0 - 4095	
2	H Back Porch		32	0 - 4095	
3	V Back Porch		18	0 - 4095	
4	Disp Line		542	0 - 4095	
Group 510 SCART(480i)					
0	Total Dots		854	0 - 4095	
1	Disp Dots		664	0 - 4095	
2	H Back Porch		144	0 - 4095	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
	3 V Back Porph		47	0 - 4095	
	4 Disp Line		449	0 - 4095	
	5 Clamp		0	0 - 4095	
	6 Clamp Width		0	0 - 4095	
	25 (USB)Clamp		0	0 - 4095	
	26 (USB)Clamp Width		0	0 - 4095	
Group 511	SCART (575i)				
	0 Total Dots		872		
	1 Disp Dots		656	0 - 4095	
	2 H Back Porph		163	0 - 4095	
	3 V Back Porph		60	0 - 4095	
	4 Disp Line		531	0 - 4095	
	5 Clamp		0	0 - 4095	
	6 Clamp Width		0	0 - 4095	
	25 (USB)Clamp		0	0 - 4095	
	26 (USB)Clamp Width		0	0 - 4095	
Group 520	YCbCr (480i)				
	0 Total Dots		858	0 - 4095	
	1 Disp Dots		664	0 - 4095	
	2 H Back Porph		150	0 - 4095	
	3 V Back Porph		43	0 - 4095	
	4 Disp Line		456	0 - 4095	
	5 Clamp		85	0 - 4095	
	6 Clamp Width		31	0 - 4095	
	22 (USB) H Back Porph		92	0 - 4095	
	23 (USB) V Back Porph		60	0 - 4095	
	25 (USB)Clamp		10	0 - 4095	
	26 (USB)Clamp Width		31	0 - 4095	
Group 521	YCbCr (575i)				
	0 Total Dots		864	0 - 4095	
	1 Disp Dots		658	0 - 4095	
	2 H Back Porph		164	0 - 4095	
	3 V Back Porph		55	0 - 4095	
	4 Disp Line		542	0 - 4095	
	5 Clamp		98	0 - 4095	
	6 Clamp Width		31	0 - 4095	
	22 (USB) H Back Porph		109	0 - 4095	
	23 (USB) V Back Porph		70	0 - 4095	
	25 (USB)Clamp		15	0 - 4095	
	26 (USB)Clamp Width		31	0 - 4095	
Group 522	YCbCr (480P)				
	0 Total Dots		1716	0 - 4095	* Read only
	1 Disp Dots		1368	0 - 4095	
	2 H Back Porph		281	0 - 4095	
	3 V Back Porph		46	0 - 4095	
	4 Disp Line		458	0 - 4095	
	5 Clamp		180	0 - 4095	
	6 Clamp Width		31	0 - 4095	
	22 (USB) H Back Porph		164	0 - 4095	
	23 (USB) V Back Porph		50	0 - 4095	
	25 (USB)Clamp		1	0 - 4095	
	26 (USB)Clamp Width		31	0 - 4095	
Group 523	YCbCr (575P)				
	0 Total Dots		1728	0 - 4095	* Read only
	1 Disp Dots		1360	0 - 4095	
	2 H Back Porph		304	0 - 4095	
	3 V Back Porph		58	0 - 4095	
	4 Disp Line		544	0 - 4095	
	5 Clamp		168	0 - 4095	
	6 Clamp Width		31	0 - 4095	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
22	(USB) H Back Porph		187	0 - 4095	
23	(USB) V Back Porph		61	0 - 4095	
25	(USB)Clamp		1	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 524	YCbCr (720P - 60)				
0	Total Dots		1650	0 - 4095	* Read only
1	Disp Dots		1248	0 - 4095	
2	H Back Porph		315	0 - 4095	
3	V Back Porph		33	0 - 4095	
4	Disp Line		700	0 - 4095	
5	Clamp		140	0 - 4095	
6	Clamp Width		31	0 - 4095	
22	(USB) H Back Porph		284	0 - 4095	
23	(USB) V Back Porph		40	0 - 4095	
25	(USB)Clamp		110	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 525	YCbCr (720P - 50)				
0	Total Dots		1980	0 - 4095	* Read only
1	Disp Dots		1220	0 - 4095	
2	H Back Porph		330	0 - 4095	
3	V Back Porph		34	0 - 4095	
4	Disp Line		701	0 - 4095	
5	Clamp		140	0 - 4095	
6	Clamp Width		31	0 - 4095	
22	(USB) H Back Porph		298	0 - 4095	
23	(USB) V Back Porph		39	0 - 4095	
25	(USB)Clamp		110	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 526	YCbCr (1080i - 60)				
0	Total Dots		2200	0 - 4095	* Read only
1	Disp Dots		1874	0 - 4095	
2	H Back Porph		302	0 - 4095	
3	V Back Porph		52	0 - 4095	
4	Disp Line		1050	0 - 4095	
5	Clamp		140	0 - 4095	
6	Clamp Width		31	0 - 4095	
22	(USB) H Back Porph		268	0 - 4095	
23	(USB) V Back Porph		85	0 - 4095	
25	(USB)Clamp		80	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 527	YCbCr (1080i - 50)				
0	Total Dots		2640	0 - 4095	* Read only
1	Disp Dots		1872	0 - 4095	
2	H Back Porph		303	0 - 4095	
3	V Back Porph		49	0 - 4095	
4	Disp Line		1052	0 - 4095	
5	Clamp		150	0 - 4095	
6	Clamp Width		31	0 - 4095	
22	(USB) H Back Porph		268	0 - 4095	
23	(USB) V Back Porph		83	0 - 4095	
25	(USB)Clamp		80	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 528	YCbCr (1035i)				
0	Total Dots		2200	0 - 4095	* Read only
1	Disp Dots		1874	0 - 4095	
2	H Back Porph		259	0 - 4095	
3	V Back Porph		90	0 - 4095	
4	Disp Line		1006	0 - 4095	
5	Clamp		140	0 - 4095	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
	6	Clamp Width	31	0 - 4095	
	22	(USB) H Back Porch	225	0 - 4095	
	23	(USB) V Back Porch	125	0 - 4095	
	25	(USB)Clamp	80	0 - 4095	
	26	(USB)Clamp Width	31	0 - 4095	
Group 540	RGB Video (480i)				
	0	Total Dots	1716	0 - 4095	
	1	Disp Dots	1346	0 - 4095	
	2	H Back Porch	174	0 - 4095	
	3	V Back Porch	48	0 - 4095	
	4	Disp Line	460	0 - 4095	
	5	Clamp	1	0 - 4095	
	6	Clamp Width	31	0 - 4095	
	22	(USB) H Back Porch	292	0 - 4095	
	23	(USB) V Back Porch	45	0 - 4095	
	25	(USB)Clamp	160	0 - 4095	
	26	(USB)Clamp Width	31	0 - 4095	
Group 541	RGB Video (575i)				
	0	Total Dots	1728	0 - 4095	
	1	Disp Dots	1318	0 - 4095	
	2	H Back Porch	208	0 - 4095	
	3	V Back Porch	64	0 - 4095	
	4	Disp Line	536	0 - 4095	
	5	Clamp	1	0 - 4095	
	6	Clamp Width	31	0 - 4095	
	22	(USB)H Back Porch	328	0 - 4095	
	23	(USB)V Back Porch	62	0 - 4095	
	25	(USB) Clamp	180	0 - 4095	
	26	(USB)Clamp Width	31	0 - 4095	
Group 542	RGB Video (480P)				
	0	Total Dots	1716	0 - 4095	
	1	Disp Dots	1368	0 - 4095	
	2	H Back Porch	163	0 - 4095	
	3	V Back Porch	50	0 - 4095	
	4	Disp Line	458	0 - 4095	
	5	Clamp	1	0 - 4095	
	6	Clamp Width	31	0 - 4095	
	22	(USB)H Back Porch	278	0 - 4095	
	23	(USB)V Back Porch	48	0 - 4095	
	25	(USB) Clamp	180	0 - 4095	
	26	(USB)Clamp Width	31	0 - 4095	
Group 543	RGB Video (575P)				
	0	Total Dots	1728	0 - 4095	
	1	Disp Dots	1360	0 - 4095	
	2	H Back Porch	185	0 - 4095	
	3	V Back Porch	64	0 - 4095	
	4	Disp Line	540	0 - 4095	
	5	Clamp	1	0 - 4095	
	6	Clamp Width	31	0 - 4095	
	22	(USB)H Back Porch	302	0 - 4095	
	23	(USB)V Back Porch	60	0 - 4095	
	25	(USB) Clamp	180	0 - 4095	
	26	(USB)Clamp Width	31	0 - 4095	
Group 544	RGB Video (720P - 60)				
	0	Total Dots	1650	0 - 4095	
	1	Disp Dots	1248	0 - 4095	
	2	H Back Porch	282	0 - 4095	
	3	V Back Porch	30	0 - 4095	
	4	Disp Line	700	0 - 4095	
	5	Clamp	110	0 - 4095	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
	6	Clamp Width	31	0 - 4095	
	22	(USB)H Back Porch	274	0 - 4095	
	23	(USB)V Back Porch	34	0 - 4095	
	25	(USB) Clamp	170	0 - 4095	
	26	(USB)Clamp Width	31	0 - 4095	
Group 545	RGB Video (720P - 50)				
	0	Total Dots	1980	0 - 4095	
	1	Disp Dots	1222	0 - 4095	
	2	H Back Porch	296	0 - 4095	
	3	V Back Porch	30	0 - 4095	
	4	Disp Line	700	0 - 4095	
	5	Clamp	110	0 - 4095	
	6	Clamp Width	31	0 - 4095	
	22	(USB)H Back Porch	288	0 - 4095	
	23	(USB)V Back Porch	35	0 - 4095	
	25	(USB) Clamp	150	0 - 4095	
	26	(USB)Clamp Width	31	0 - 4095	
Group 546	RGB Video (1080i - 60)				
	0	Total Dots	2200	0 - 4095	
	1	Disp Dots	1872	0 - 4095	
	2	H Back Porch	268	0 - 4095	
	3	V Back Porch	46	0 - 4095	
	4	Disp Line	1052	0 - 4095	
	5	Clamp	80	0 - 4095	
	6	Clamp Width	31	0 - 4095	
	22	(USB)H Back Porch	258	0 - 4095	
	23	(USB)V Back Porch	54	0 - 4095	
	25	(USB) Clamp	140	0 - 4095	
	26	(USB)Clamp Width	31	0 - 4095	
Group 547	RGB Video (1080i - 50)				
	0	Total Dots	2640	0 - 4095	
	1	Disp Dots	1870	0 - 4095	
	2	H Back Porch	268	0 - 4095	
	3	V Back Porch	46	0 - 4095	
	4	Disp Line	1052	0 - 4095	
	5	Clamp	80	0 - 4095	
	6	Clamp Width	31	0 - 4095	
	22	(USB)H Back Porch	260	0 - 4095	
	23	(USB)V Back Porch	52	0 - 4095	
	25	(USB) Clamp	140	0 - 4095	
	26	(USB)Clamp Width	31	0 - 4095	
Group 548	RGB Video (1035i)				
	0	Total Dots	2200	0 - 4095	
	1	Disp Dots	1872	0 - 4095	
	2	H Back Porch	180	0 - 4095	
	3	V Back Porch	92	0 - 4095	
	4	Disp Line	1012	0 - 4095	
	5	Clamp	80	0 - 4095	
	6	Clamp Width	31	0 - 4095	
	22	(USB)H Back Porch	214	0 - 4095	
	23	(USB)V Back Porch	90	0 - 4095	
	25	(USB) Clamp	120	0 - 4095	
	26	(USB)Clamp Width	31	0 - 4095	
Group 551	RGB Video (1080p-30)				
	0	Total Dots	2200	0 - 4095	
	1	Disp Dots	1874	0 - 4095	
	2	H Back Porch	250	0 - 4095	
	3	V Back Porch	55	0 - 4095	
	4	Disp Line	1051	0 - 4095	
	5	Clamp	80	0 - 4095	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
	6	Clamp Width	31	0 - 4095	
	22	(USB)H Back Porch	250	0 - 4095	
	23	(USB)V Back Porch	55	0 - 4095	
	25	(USB) Clamp	80	0 - 4095	
	26	(USB)Clamp Width	31	0 - 4095	
Group 552	RGB Video (1080p-25)				
	0	Total Dots	2640	0 - 4095	
	1	Disp Dots	1874	0 - 4095	
	2	H Back Porch	250	0 - 4095	
	3	V Back Porch	56	0 - 4095	
	4	Disp Line	1051	0 - 4095	
	5	Clamp	80	0 - 4095	
	6	Clamp Width	31	0 - 4095	
	22	(USB)H Back Porch	250	0 - 4095	
	23	(USB)V Back Porch	56	0 - 4095	
	25	(USB) Clamp	80	0 - 4095	
	26	(USB)Clamp Width	31	0 - 4095	
Group 553	RGB Video (1080p-24)				
	0	Total Dots	2750	0 - 4095	
	1	Disp Dots	1874	0 - 4095	
	2	H Back Porch	250	0 - 4095	
	3	V Back Porch	56	0 - 4095	
	4	Disp Line	1051	0 - 4095	
	5	Clamp	80	0 - 4095	
	6	Clamp Width	31	0 - 4095	
	22	(USB)H Back Porch	250	0 - 4095	
	23	(USB)V Back Porch	56	0 - 4095	
	25	(USB) Clamp	80	0 - 4095	
	26	(USB)Clamp Width	31	0 - 4095	
Group 555	RGB Video (1080SF-30)				
	0	Total Dots	2200	0 - 4095	
	1	Disp Dots	1875	0 - 4095	
	2	H Back Porch	249	0 - 4095	
	3	V Back Porch	90	0 - 4095	
	4	Disp Line	1013	0 - 4095	
	5	Clamp	80	0 - 4095	
	6	Clamp Width	31	0 - 4095	
	22	(USB)H Back Porch	249	0 - 4095	
	23	(USB)V Back Porch	90	0 - 4095	
	25	(USB) Clamp	80	0 - 4095	
	26	(USB)Clamp Width	31	0 - 4095	
Group 556	RGB Video (1080SF-25)				
	0	Total Dots	2640	0 - 4095	
	1	Disp Dots	1875	0 - 4095	
	2	H Back Porch	249	0 - 4095	
	3	V Back Porch	90	0 - 4095	
	4	Disp Line	1013	0 - 4095	
	5	Clamp	80	0 - 4095	
	6	Clamp Width	31	0 - 4095	
	22	(USB)H Back Porch	249	0 - 4095	
	23	(USB)V Back Porch	90	0 - 4095	
	25	(USB) Clamp	80	0 - 4095	
	26	(USB)Clamp Width	31	0 - 4095	
Group 557	RGB Video (1080PSF-24)				
	0	Total Dots	2750	0 - 4095	
	1	Disp Dots	1888	0 - 4095	
	2	H Back Porch	145	0 - 4095	
	3	V Back Porch	47	0 - 4095	
	4	Disp Line	1063	0 - 4095	
	5	Clamp	80	0 - 4095	

Electrical Adjustments

Group/ Item	Item Name	Function	Initial	Range	Note
6	Clamp Width		31	0 - 4095	
22	(USB)H Back Porch		181	0 - 4095	
23	(USB)V Back Porch		51	0 - 4095	
25	(USB) Clamp		80	0 - 4095	
26	(USB)Clamp Width		31	0 - 4095	
Group 930	AutoGamma				
0	GAM_CALG_STATUS		0	0 - 1	Auto Gamma adjust

